



SEQUENCE LISTING

#6

<110> Eggeling, Lothar

Sahm, Hermann

<120> METHOD FOR MICROBIALY PRODUCING L-VALINE

<130> 5899\*13

<140> 09/914006

<141> 2001-08-21

<150> PCT/EP00/01405

<151> 2000-02-21

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<170> PatentIn version 3.1

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<212> DNA

<213> Corynebacterium glutamicum

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<212> PRT

<213> Corynebacterium glutamicum

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35 40 45

Gly His Val His Leu Lys Asn Val Gly Asp Ile Val Ala Asp Ala Val  
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Arg Lys Ala Gly Gly Val Pro Lys Glu Phe Asn Thr Ile Val Asp Asp  
65 70 75 80

Gly Ile Ala Met Gly His Gly Gly Met Leu Tyr Ser Leu Pro Ser Arg  
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Glu Ile Ile Ala Asp Ser Val Glu Tyr Met Val Asn Ala His Thr Ala  
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Asp Ala Met Val Cys Ile Ser Asn Cys Asp Lys Ile Thr Pro Gly Met  
115 120 125

Leu Asn Ala Ala Met Arg Leu Asn Ile Pro Val Val Phe Val Ser Gly  
130 135 140

Gly Pro Met Glu Ala Gly Lys Ala Val Val Val Glu Arg Val Ala His  
145 150 155 160

Ala Pro Thr Asp Leu Ile Thr Ala Ile Ser Ala Ser Ala Ser Asp Ala  
165 170 175

Val Asp Asp Ala Gly Leu Ala Ala Val Glu Arg Ser Ala Cys Pro Thr  
180 185 190

Cys Gly Ser Cys Ser Gly Met Phe Thr Ala Asn Ser Met Asn Cys Leu  
195 200 205

Thr Glu Ala Leu Gly Leu Ser Leu Pro Gly Asn Gly Ser Thr Leu Ala  
210 215 220

Thr His Ala Ala Arg Arg Ala Leu Phe Glu Lys Ala Gly Glu Thr Val  
225 230 235 240

Val Glu Leu Cys Arg Arg Tyr Tyr Gly Glu Glu Asp Glu Ser Val Leu  
245 250 255

Pro Arg Gly Ile Ala Thr Lys Lys Ala Phe Glu Asn Ala Met Ala Leu  
260 265 270

Asp Met Ala Met Gly Gly Ser Thr Asn Thr Ile Leu His Ile Leu Ala  
275 280 285

Ala Ala Gln Glu Gly Glu Val Asp Phe Asp Leu Ala Asp Ile Asp Glu  
290 295 300

Leu Ser Lys Asn Val Pro Cys Leu Ser Lys Val Ala Pro Asn Ser Asp  
305 310 315 320

Tyr His Met Glu Asp Val His Arg Ala Gly Arg Ile Pro Ala Leu Leu  
325 330 335

Gly Glu Leu Asn Arg Gly Gly Leu Leu Asn Lys Asp Val His Ser Val  
340 345 350

His Ser Asn Asp Leu Glu Gly Trp Leu Asp Asp Trp Asp Ile Arg Ser  
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Gly Lys Thr Thr Glu Val Ala Thr Glu Leu Phe His Ala Ala Pro Gly  
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Gly Ile Arg Thr Thr Glu Ala Phe Ser Thr Glu Asn Arg Trp Asp Glu  
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Leu Asp Thr Asp Ala Ala Lys Gly Cys Ile Arg Asp Val Glu His Ala  
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Tyr Thr Ala Asp Gly Gly Leu Val Val Leu Arg Gly Asn Ile Ser Pro  
420 425 430

Asp Gly Ala Val Ile Lys Ser Ala Gly Ile Glu Glu Glu Leu Trp Asn  
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Phe Thr Gly Pro Ala Arg Val Val Glu Ser Gln Glu Glu Ala Val Ser  
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Val Ile Leu Thr Lys Thr Ile Gln Ala Gly Glu Val Leu Val Val Arg  
465 470 475 480

Tyr Glu Gly Pro Ser Gly Gly Pro Gly Met Gln Glu Met Leu His Pro  
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Thr Ala Phe Leu Lys Gly Ser Gly Leu Gly Lys Lys Cys Ala Leu Ile  
500 505 510

Thr Asp Gly Arg Phe Ser Gly Gly Ser Ser Gly Leu Ser Ile Gly His  
515 520 525

Val Ser Pro Glu Ala Ala His Gly Gly Val Ile Gly Leu Ile Glu Asn  
530 535 540

Gly Asp Ile Val Ser Ile Asp Val His Asn Arg Lys Leu Glu Val Gln  
545 550 555 560

Val Ser Asp Glu Glu Leu Gln Arg Arg Arg Asp Ala Met Asn Ala Ser  
565 570 575

Glu Lys Pro Trp Gln Pro Val Asn Arg Asn Arg Val Val Thr Lys Ala  
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Leu Arg Ala Tyr Ala Lys Met Ala Thr Ser Ala Asp Lys Gly Ala Val  
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Arg Gln Val Asp  
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<212> DNA

<213> Corynebacterium glutamicum

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<213> Corynebacterium glutamicum

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Asp Ala Leu Ser Ala Arg Ile Phe Asp Glu Ala Gly Val Asp Met Leu  
 35 40 45

Leu Val Gly Asp Ser Ala Ala Asn Val Val Leu Gly Arg Asp Thr Thr  
 50 55 60



Leu Ser Ile Thr Leu Asp Glu Met Ile Val Leu Ala Lys Ala Val Thr  
 65 70 75 80

Ile Ala Thr Lys Arg Ala Leu Val Val Val Asp Leu Pro Phe Gly Thr  
 85 90 95

Tyr Glu Val Ser Pro Asn Gln Ala Val Glu Ser Ala Ile Arg Val Met  
 100 105 110

Arg Glu Thr Gly Ala Ala Ala Val Lys Ile Glu Gly Gly Val Glu Ile  
 115 120 125

Ala Gln Thr Ile Arg Arg Ile Val Asp Ala Gly Ile Pro Val Val Gly  
 130 135 140

His Ile Gly Tyr Thr Pro Gln Ser Glu His Ser Leu Gly Gly His Val  
 145 150 155 160

Val Gln Gly Arg Gly Ala Ser Ser Gly Lys Leu Ile Ala Asp Ala Arg  
 165 170 175

Ala Leu Glu Gln Ala Gly Ala Phe Ala Val Val Leu Glu Met Val Pro  
 180 185 190

Ala Glu Ala Ala Arg Glu Val Thr Glu Asp Leu Ser Ile Thr Thr Ile  
 195 200 205

Gly Ile Gly Ala Gly Asn Gly Thr Asp Gly Gln Val Leu Val Trp Gln  
 210 215 220

Asp Ala Phe Gly Leu Asn Arg Gly Lys Lys Pro Arg Phe Val Arg Glu  
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Tyr Ala Thr Leu Gly Asp Ser Leu His Asp Ala Ala Gln Ala Tyr Ile  
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Ala Asp Ile His Ala Gly Thr Phe Pro Gly Glu Ala Glu Ser Phe  
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<212> PRT

<213> Corynebacterium glutamicum

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His Ala Ser Leu Val Lys Ala Ala Arg Ala Glu Asn Asp Thr Val Val  
35 40 45

Ala Ser Ile Phe Val Asn Pro Leu Gln Phe Glu Ala Leu Gly Asp Cys  
50 55 60

Asp Asp Tyr Arg Asn Tyr Pro Arg Gln Leu Asp Ala Asp Leu Ala Leu  
65 70 75 80

Leu Glu Glu Ala Gly Val Asp Ile Val Phe Ala Pro Asp Val Glu Glu  
85 90 95

Met Tyr Pro Gly Gly Leu Pro Leu Val Trp Ala Arg Thr Gly Ser Ile  
100 105 110

Gly Thr Lys Leu Glu Gly Ala Ser Arg Pro Gly His Phe Asp Gly Val  
115 120 125

Ala Thr Val Val Ala Lys Leu Phe Asn Leu Val Arg Pro Asp Arg Ala  
130 135 140

Tyr Phe Gly Gln Lys Asp Ala Gln Gln Val Ala Val Ile Arg Arg Leu  
145 150 155 160

Val Ala Asp Leu Asp Ile Pro Val Glu Ile Arg Pro Val Pro Ile Ile  
165 170 175

Arg Gly Ala Asp Gly Leu Ala Glu Ser Ser Arg Asn Gln Arg Leu Ser  
180 185 190

Ala Asp Gln Arg Ala Gln Ala Leu Val Leu Pro Gln Val Leu Ser Gly  
195 200 205

Leu Gln Arg Arg Lys Ala Ala Gly Glu Ala Leu Asp Ile Gln Gly Ala  
210 215 220

Arg Asp Thr Leu Ala Ser Ala Asp Gly Val Arg Leu Asp His Leu Glu  
225 230 235 240

Ile Val Asp Pro Ala Thr Leu Glu Pro Leu Glu Ile Asp Gly Leu Leu  
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Thr Gln Pro Ala Leu Val Val Gly Ala Ile Phe Val Gly Pro Val Arg  
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Leu Ile Asp Asn Ile Glu Leu  
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<212> DNA

<213> Corynebacterium glutamicum

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26

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